

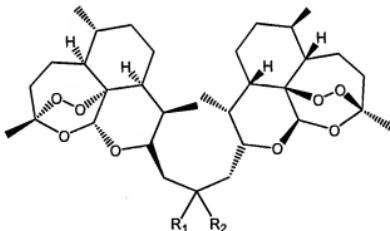
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Please amend claim 83 as follows (additions are underlined; deletions are in ~~strikethrough~~):

1. (Previously Presented) A compound including resolved enantiomers, diastereomers, solvates and pharmaceutical acceptable salts thereof, said compound having the formula:

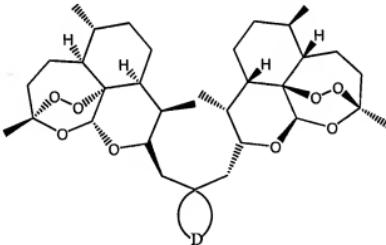


wherein if R₁ is hydrogen or --OH then R₂ is AX, and if R₂ is hydrogen or --OH then R₁ is AX, and A may be absent or A may be any alkyl or aryl group where X is hydrogen, a phosphate group, a phosphonic acid derivative group, an alcohol group, a carboxylic acid group, an ether group, an ester group, a nitrile group, a sulfone group, a sulfide group, an amino acid derivative group, an amine group, and amide group, an aldehyde group, or an aromatic group.

2. (Original) The compound of claim 1, wherein said alcohol group is represented by --R³OH, wherein R³ is a straight chained or branched alkyl group having 1 to 5 carbon atoms.
3. (Original) The compound of claim 1, wherein said carboxylic acid group comprises --R⁴COOH wherein R⁴ is at least one saturated or unsaturated alkyl group, an aryl group an ester group, an ether group or a combination thereof.

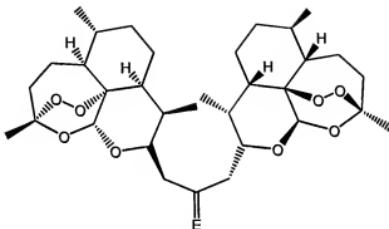
4. (Original) The compound of claim 3, wherein R⁴ is an ester group represented by --R⁵COO--, wherein R⁵ is bonded to the carboxylic acid group and has 0 to 5 carbon atoms.
5. (Original) The compound of claim 3, wherein R⁴ is an ether group represented by R⁶--O--R⁷ wherein R⁶ and R⁷ are, independently, an alkyl or allyl group having 0 to 5 carbon atoms.
6. (Original) The compound of claim 1, wherein said aromatic group comprises Ar--(R⁸)_m, wherein Ar represents a benzene ring, and m is 1 or 2.
7. (Original) The compound of claim 6, wherein R₈ is --CH=CH₂, or --COOH.
8. (Original) The compound of claim 1, wherein the ester group is represented by --CR⁹, where R⁹ is an ester of nicotinic acid, an ester of isonicotinic acid, or the ester group is represented by --CO(C=O)R^{9a}, where R^{9a} is Ph(CY₃)_o, where o is 1 or 2, and Y may be, independently, H, F, Cl, Br, or I, or where R^{9a} is a substituted heterocyclohexane compound.
9. (Original) The compound of claim 1, wherein the phosphonic acid derivative group is represented by --CO--P(R¹⁰)(O)OH, where R¹⁰ is an alkyl group having 0 to 5 carbon atoms.
10. (Original) The compound of claim 1, wherein the phosphate group is --COP(O)(OR¹¹)₂, where R¹¹ is an alkyl group having 0 to 5 carbon atoms, or a phenyl group.
11. (Original) The compound of claim 1, wherein the nitrile group is R¹²CN, where R¹² is an alkyl group having 0 to 5 carbon atoms.
12. (Original) The compound of claim 1, wherein the sulfone group is --CS(=O)₂R¹³, wherein R¹³ is --N(CH₃)₂, --OR¹⁴, or --Ph--COOR¹⁴, where R¹⁴ is H, CH₃, or --CH(CH₃)₂.
13. (Original) The compound of claim 1, wherein the sulfide group is --CSR¹⁵, where R¹⁵ is pyridine or --Ph--COOR¹⁶, where R¹⁶ is H or CH₃.
14. (Original) The compound of claim 1, wherein the amino acid derivative group is --COC(=O)CHR²¹N(R¹⁷)₂, where each R¹⁷ group is, independently, H or CH₃ and R²¹ is hydrogen or any other substituent.

15. (Original) The compound of claim 1, wherein the amine group is $-\text{CN}(\text{R}^{18})_2$, where each R^{18} group is, independently, H, an alkyl group, or a phenyl group.
16. (Original) The compound of claim 1, wherein the ether group is $-\text{C}(\text{R}^{19})-\text{O}-\text{CR}^{19}$, where R^{19} is a substituted pyridine.
17. (Original) The compound of claim 1, wherein the amide group is $-\text{(C=O)N}(\text{R}^{20})_2$, or $-\text{CH}_2(\text{C=O)N}(\text{R}^{20})_2$ where each R^{20} is, independently, H or $-\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$.
18. (Previously Presented) A compound including resolved enantiomers, diastereomers, solvates and pharmaceutical acceptable salts thereof, said compound having the formula:



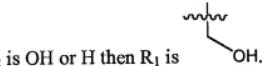
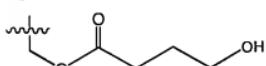
where D forms a heterocyclic ring having 3 to 5 atoms.

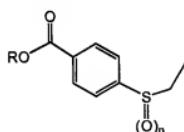
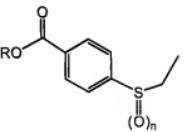
19. (Original) The compound of claim 18, wherein the heterocyclic ring is a 3-membered ring and one of the atoms in the ring is oxygen.
20. (Original) The compound of claim 18, wherein the heterocyclic ring is a 5-membered ring and two of the atoms in the ring are oxygen.
21. (Original) The compound of claim 20, wherein the heterocyclic ring is substituted with an oxygen atom.
22. (Original) The compound of claim 21, wherein another atom in the 5-membered ring is a sulfur or a phosphorous atom.
23. (Original) The compound of claim 22, wherein the 5-membered ring is substituted with 1 or 2 oxygen atoms bonded to the sulfur atom.
24. (Previously Presented) A compound including resolved enantiomers, diastereomers, solvates and pharmaceutical acceptable salts thereof, said compound having the formula:



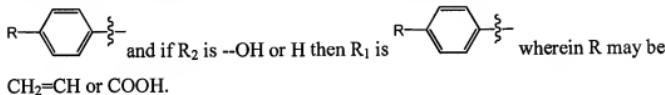
where E is H, O, NR, CH₂ or S wherein R may be hydrogen, alkyl, aryl or any other substituent.

25. (Original) The compound of claim 1 wherein if R₁ is H or --OH then R₂ is  OH and if R₂ is OH or H then R₁ is  OH.

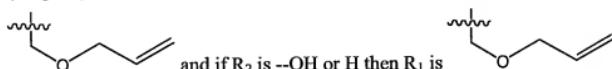
26. (Original) The compound of claim 1, wherein if R is H or --OH then R₂ is  and if R₂ is OH or H then R₁ is .

27. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is  wherein R is hydrogen or a methyl group when n is 0 or 2.

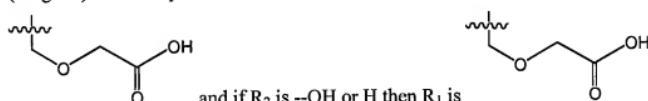
28. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



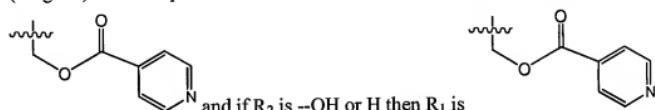
29. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



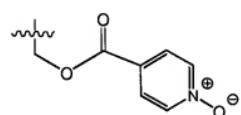
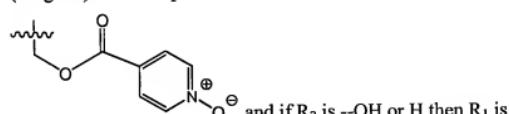
30. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



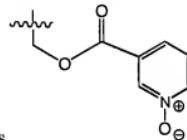
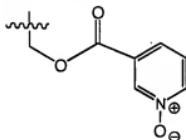
31. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



32. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is

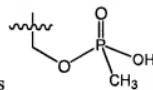
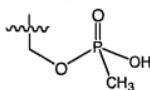


33. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



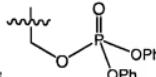
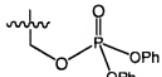
and if R₂ is --OH or H then R₁ is

34. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



and if R₂ is --OH or H then R₁ is

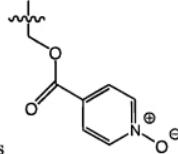
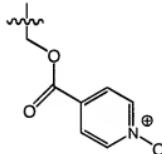
35. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



and if R₂ is --OH or H then R₁ is

36. (Original) The compound of claim 1, wherein if R₁ is H then R₂ is --OH.

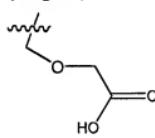
37. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



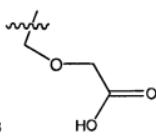
and if R₂ is --OH or H then R₁ is

38. (Original) The compound of claim 1, wherein if R₁ is H then R₂ is carboxylic acid.

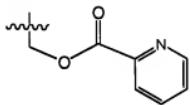
39. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



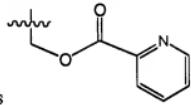
and if R₂ is --OH or H then R₁ is



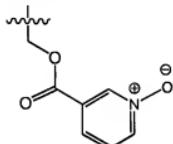
40. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



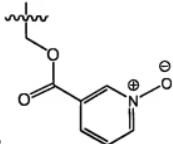
and if R₂ is --OH or H then R₁ is



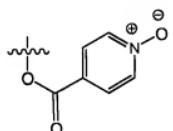
41. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



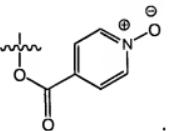
and if R₂ is --OH or H then R₁ is



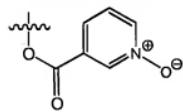
42. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



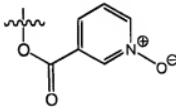
and if R₂ is --OH or H then R₁ is



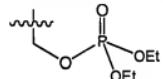
43. (Original) The compound of claim 1 wherein if R₁ is H or --OH then R₂ is



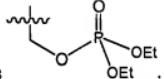
and if R₂ is --OH or H then R₁ is



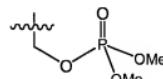
44. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



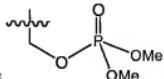
and if R₂ is --OH or H then R₁ is



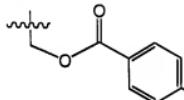
45. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



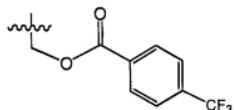
and if R₂ is --OH or H then R₁ is



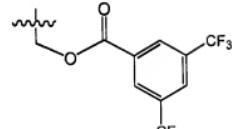
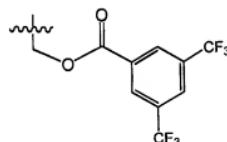
46. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



CF₃ and if R₂ is --OH or H then R₁ is

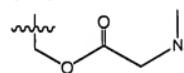


47. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is

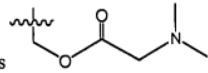


and if R₂ is --OH or H then R₁ is

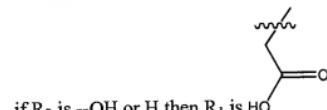
48. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



and if R₂ is --OH or H then R₁ is

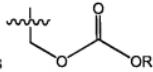
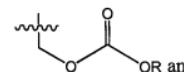


49. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is HO and



if R₂ is --OH or H then R₁ is HO

50. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



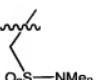
51. (Original) The compound of claim 50 wherein R is a methyl or ethyl group.

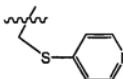
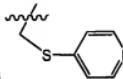
52. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and

if R₂ is --OH or H then R₁ is .

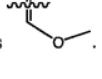
53. (Original) The compound of claim 52 wherein R is a methyl group.

54. (Original) The compound of claim 52 wherein R is an iso-propyl group.

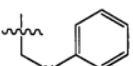
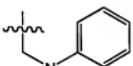
55. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

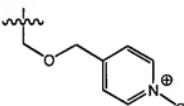
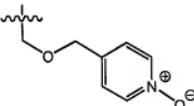
56. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

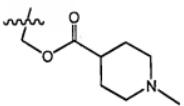
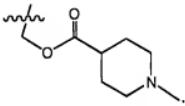
57. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

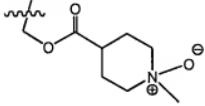
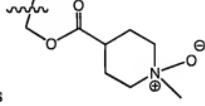
58. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

59. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

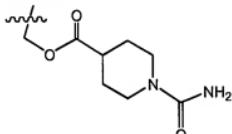
60. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

61. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

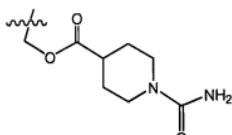
62. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

63. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  and if R₂ is --OH or H then R₁ is .

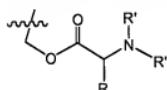
64. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



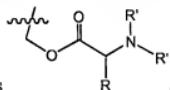
and if R₂ is --OH or H then R₁ is



65. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is

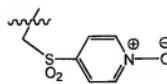


and if R₂ is --OH or H then R₁ is

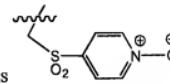


66. (Original) The compound of claim 66 wherein each R' and R independently can be any amino acid of all possible stereochemistries and with any degree and choice of protecting group.

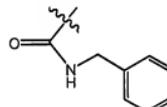
67. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



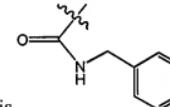
and if R₂ is --OH or H then R₁ is



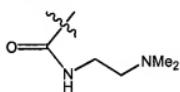
68. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is



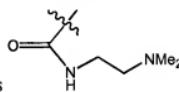
and if R₂ is --OH or H then R₁ is



69. (Original) The compound of claim 1, wherein if R_1 is H or --OH then R_2 is



and if R_2 is --OH or H then R_1 is



70. (Original) The compound of claim 1, wherein if R_1 is H or --OH then R_2 is



and if R_2 is --OH or H then R_1 is



71. (Original) The compound of claim 1, wherein if R_1 is H or --OH then R_2 is



and if R_2 is --OH or H then R_1 is



72. (Original) The compound of claim 1, wherein if R_1 is H or --OH then R_2 is



and if R_2 is --OH or H then R_1 is



73. (Original) The compound of claim 1, wherein if R_1 is H or --OH then R_2 is



R_2 is --OH or H then R_1 is



74. (Original) The compound of claim 1, wherein if R₁ is H or --OH then R₂ is  NRR' and if R₂ is --OH or H then R₁ is  NRR'.

75. (Original) The compound of claim 74, wherein R and R' are independently of each other hydrogen, alkyl, aryl, or allyl.

76. (Original) The compound of claim 19 wherein said heterocyclic ring is .

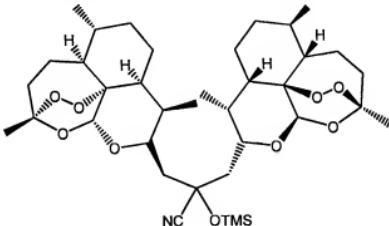
77. (Original) The compound of claim 21 wherein said heterocyclic ring is .

78. (Original) The compound of claim 22 wherein said heterocyclic ring is .

79. (Original) The compound of claim 21 wherein said heterocyclic ring is .

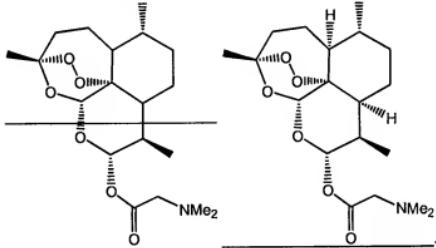
80. (Original) The compound of claim 22 wherein said heterocyclic ring is .

81. (Previously Presented) A compound including resolved enantiomers, diastereomers, solvates and pharmaceutical acceptable salts thereof, said compound having the formula:



82. (Canceled).

83. (Currently Amended) A compound including resolved enantiomers, diastereomers, solvates and pharmaceutical acceptable salts thereof, said compound having the formula:



84. (Original) A method of treating cancer, which comprises administering to a patient suffering from said cancer the compound of claim 1.

85. (Original) A method according to claim 84 wherein said cancer is selected from the group of cancers consisting of leukemia, non-small cell lung cancer, colon cancer, central nervous system cancer, melanoma cancer, ovarian cancer, renal cancer, prostate cancer, and breast cancer.

86. (Original) A method for treating malaria comprising administering an effective amount of the compound of claim 1.